

Derwent WPI

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Method for analog decoding of iterative binary codes and decoder which implements said method

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Patent Family (1 patents, 1 & countries)

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Patent Details

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Alerting Abstract RU C1

NOVELTY - Method involves operations for generation of samples of code words signal for values of code word characters using m iteration loops according m levels of iteration coding, detection of values of information characters using signature of code characters produced by last operation. Goal of invention is achieved by introduced operations of iterating calculation of code word characters and introduced units for calculation of plausibility logarithm, subtraction, memory unit and generator of code words signals. Decoder has analog-to-digital converter 1, first, second and third memory units 2, 13, 14, first and second plausibility logarithm calculation units 6, 10, control unit 7, decision making unit 12, information access unit 15, subtraction unit 16, commutator 8, code words signal generator 9.

USE - Message transmission, in particular, telemetry and communication systems, computer engineering.

ADVANTAGE - Increased stability to noise, increased speed of message transmission, simplified design. 2 cl, 1 dwgr

Title Terms /Index Terms/Additional Words: METHOD; ANALOGUE; DECODE; ITERATIVE; BINARY; CODE; IMPLEMENT

Class Codes

International Patent Classification

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